

SATCOM Connectivity to Aircraft Worldwide

Company:

Systems and
Processes
Engineering Corp.
(SPEC)

Location:

Austin, TX

Employees:

62

President:

Randy Noster

Project Officer:

Glen Bahr
AFRL Information
Directorate
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Rome, NY



SBIR Technology

Air Mobility Command (AMC) needs to know the exact location of its fleet of strategic airlift and refueling aircraft deployed worldwide. It also needs to know the status of crews and cargo.

Using Air Force SBIR Phase I and II contracts, SPEC proved the feasibility of adapting commercial satellite communications (SATCOM) for connectivity to aircraft worldwide and produced a successful communication system. SPEC provided the Air Force a cost-effective system that operates on a commercial notebook computer. The system features highly reliable, worldwide coverage, user-friendly e-mail interface, system expansion capabilities and authentication and encryption capabilities. Air Force Air Mobility Command (AMC) is installing the L-Band SATCOM hardware in all of its C-5 Galaxy, C-141 Starlifter and KC-10 Extender aircraft and is considering installation in its other aircraft as well.

For more information
on this story, contact
Air Force TechConnect
at 1-800-203-6451 or
at [www.afrl.af.mil/
techconn/index.htm](http://www.afrl.af.mil/techconn/index.htm)

Company Impact

SPEC was awarded a SBIR Phase III five-year commercialization contract (non-SBIR funds) to provide ongoing support, first-level maintenance support for L-Band SATCOM hardware, and development of the software support products. Under Phase III, SPEC is also expanding the position reporting software features available in the system.

To date, the estimated total company commercial sales (both to government and commercial companies) resulting from SBIR projects is approximately \$8.4 million.

Company Quote

"I see SPEC's success through the Air Force SBIR Program as the first critical step toward providing asset management solutions for airborne fleets of all types worldwide. I am extremely optimistic about the commercial opportunity the Falcon SATCOM Gateway system brings to SPEC."

Randy Noster

President, Systems & Processes Engineering Corporation

SBIR

AF SBIR Program Manager
AFRL/XPTT

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